Python Basics: Takeaways 🖻

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Syntax

COMMON ARITHMETIC OPERATORS

```
    Parentheses : (5 / 5) + 5
    Exponent** : 65 **5
    Multiplication : 5 * 5
    Division / : 5 / 5
```

• Addition + : 5 + 5

• Subtraction : 5 - 5

COMMON VARIABLE OPERATIONS

• Assigning valuedirectly oa variable:

```
integer_val = 5
float_val = 5.0
string_val = "5"
```

• Assigningheresulofa calculation avariable:

```
total = 5 + 5
average = (5 + 5 + 5) / 3
```

DISPLAYING VALUES

• Displayingvalue:

```
integer_val = 5
print(5)
print(integer_val)
print(5 + 5 + 5)
```

• Displayingvalue'dataype:

```
integer_val = 5
print(type(integer_val))
```

LIST OPERATIONS

• Creatingnemptylist:

```
crime_rates = []
```

• Creating list with values:

```
crime_rates = [749, 371, 828, 503, 1379]
```

• Appendingvaluetoalist:

```
crime_rates = []
crime_rates.append(749)
crime_rates.append(371)
```

• Accessingndividuællementisna list:

```
crime_rates = [749, 371, 828, 503, 1379]

cr_first = crime_rates[0]

cr_third = crime_rates[2]
```

• Workingviththelengthofalist:

```
crime_rates = [749, 371, 828, 503, 1379]
length = len(crime_rates)
last_element = crime_rates[length-1]
```

• Accessinglicesof values in a list:

```
crime_rates = [749, 371, 828, 503, 1379]
cr_slice = crime_rates[0:3] # Values at 0, 1, 2
```

Concepts

- $\bullet \ \ Whenevaluating x pression \textbf{Rythorusesthe} \underline{order of operation rules from a the matrics}.$
- $\bullet \ \ \ Every value in Pytho \\ \underline{\ \ } \ as a data \\ \underline{\ \ } \ y eass ociate \\ \underline{\ \ } \ ithit. The commodata \\ \underline{\ \ } \ y eas re:$
 - Strings:"6"
 - Integers:6
 - Floats: **6.0**

Resources

- Documentationallarithmetioperators
- ListofreservedvordsnPython
- <u>Documentationlists</u>



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